



**Cover:** In a study by Baral and colleagues wild-type ( $w^{1118}$ ) larval brains at 3 days old were EdU pulse labelled (Click-IT Alexa Fluor 594) for 30 min to visualize all S-phase cells: neuroblasts (NB) and ganglionic mother cells (GMCs). This merged confocal image shows EdU-labelled cells (magenta; mushroom body NBs and their GMCs) nestled within the GFP-labelled mushroom body NBs lineage (green) near the posterior regions of the central brain lobe. Scale bar: 50 microns. Image licensed under a Creative Commons Attribution 4.0 International license.

## RESEARCH ARTICLES

Methylated *Vnn1* at promoter regions induces asthma occurrence via the PI3K/Akt/NF $\kappa$ B-mediated inflammation in IUGR mice  
**Xing, Y., Wei, H., Xiao, X., Chen, Z., Liu, H., Tong, X. and Zhou, W.**  
bio049106

Evolutionary insights in Amazonian turtles (Testudines, Podocnemididae): co-location of 5S rDNA and U2 snRNA and wide distribution of Tc1/Mariner  
**Cavalcante, M. G., Nagamachi, C. Y., Pieczarka, J. C. and Noronha, R. C. R.**  
bio049817

Coupled regulations of enzymatic activity and structure formation of aldehyde dehydrogenase Ald4p  
**Noree, C. and Sirinonthanawech, N.**  
bio051110

Nucleolar stress in *Drosophila* neuroblasts, a model for human ribosomopathies  
**Baral, S. S., Lieux, M. E. and DiMario, P. J.**  
bio046565

Abnormal expression of GABA<sub>A</sub> receptor subunits and hypomotility upon loss of *gabra1* in zebrafish  
**Reyes-Nava, N. G., Yu, H.-C., Coughlin, C. R., II, Shaikh, T. H. and Quintana, A. M.**  
bio051367

Loss of cerebellar function selectively affects intrinsic rhythmicity of eupneic breathing  
**Liu, Y., Qi, S., Thomas, F., Correia, B. L., Taylor, A. P., Sillitoe, R. V. and Heck, D. H.**  
bio048785

Starvation causes female-to-male sex reversal through lipid metabolism in the teleost fish, medaka (*Oryzias latipes*)  
**Sakae, Y., Oikawa, A., Sugiura, Y., Mita, M., Nakamura, S., Nishimura, T., Suematsu, M. and Tanaka, M.**  
bio050054

A topological analysis of difference topology experiments of condensin with topoisomerase II  
**Kim, S. and Darcy, I. K.**  
bio048603

## FIRST PERSON

First person – Sonu S. Baral  
bio052167